

## WEST Search History

DATE: Thursday, July 24, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L6	L5 and pullulan	23	L6
L5	L4 and hydrophobic	136	L5
L4	L3 and (pullulan or amylopectin or amylose or dextran or hydroxymethyl cellulose or hydroxyethyl dextran or mannan or levan or inulin or chitin or chitosan or xyloglucan)	554	L4
L3	L1 and polysaccharide	1097	L3
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
L2	L1 and polysaccharide	1097	L2
L1	((536/123.12  536/123.1  536/124  536/127  536/18.5  536/18.6 )!.CCLS. )	2564	L1

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 14:56:01 ON 24 JUL 2003)

FILE 'CAPLUS, USPATFULL, EUROPATFULL' ENTERED AT 14:56:33 ON 24 JUL 2003

L1 36575 S POLYSACCHARIDE AND PURI?  
L2 15357 S L1 AND (PULLULAN OR AMYLOPECTIN OR AMYLOSE OR DEXTRAN OR HYDR  
L3 7384 S L2 AND HYDROPHOBIC  
L4 641 S L3 AND ISOCYANATE  
L5 160 S L4 AND DIISOCYANATE  
L6 32 S L5 AND (STERYL OR CHOLESTEROL)  
L7 6 S L6 AND ULTRASONIC

=>

L7 ANSWER 1 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2003:137160 USPATFULL

TITLE: High **purity polysaccharide**  
containing a **hydrophobic** group and process  
for producing it

INVENTOR(S): Sunamoto, Junzo, 1-30-1013, Shibukawa 1-Chome,  
Kusatsu-Shi, Shiga 525-0026, JAPAN  
Akiyoshi, Kazunari, Uji, JAPAN  
Hosotani, Ryuzo, Tsukuba, JAPAN  
Hayashi, Akio, Kashiwa, JAPAN  
Fukui, Hiroki, Tsukuba, JAPAN

PATENT ASSIGNEE(S): NOF Corporation, Tokyo, JAPAN (non-U.S. corporation)  
Sunamoto, Junzo, Kusatsu, JAPAN (non-U.S. individual)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6566516	B1	20030520
	WO 2000012564		20000309
APPLICATION INFO.:	US 2000-530347		20000425 (9)
	WO 1999-JP1683		19990331
			20000425 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1998-244671	19980831
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Wilson, James O.	
ASSISTANT EXAMINER:	Lewis, Patrick	
LEGAL REPRESENTATIVE:	Flynn, Thiel, Boutell & Tanis, P.C.	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	1315	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A high **purity polysaccharide** containing  
**hydrophobic** group is produced by a process involving

a first process step of producing an **isocyanate**  
group-containing **hydrophobic** compound, wherein one mole of a  
hydroxyl group-containing hydrocarbon having 12-50 carbon atoms or of a  
sterol is reacted with a **diisocyanate** represented by  
OCN--R.sup.1--NCO in which R.sup.1 is a hydrocarbyl of 1-50 carbon  
atoms,

a second process step of producing the **polysaccharide**  
containing **hydrophobic** group composed of the hydrocarbon group  
of 12-50 carbon atoms or of the **steryl** group, wherein the  
**isocyanate** group-containing **hydrophobic** compound  
obtained in the first process step is reacted with one or more  
**polysaccharides**, and

a **purification** step in which the reaction product in the  
second process step is **purified** using a solvent based on a  
ketone.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2003:40403 USPATFULL

TITLE: Polymer compositions comprising antifibrotic agents,  
and methods of treatment, pharmaceutical compositions,  
and methods of preparation therefor

INVENTOR(S): Kohn, Joachim, Highland Park, NJ, United States

## PATENT ASSIGNEE(S):

Kemnitzner, III, John E., Plainsboro, NJ, United States  
Poiani, George J., Jamesburg, NJ, United States  
Riley, David J., New Brunswick, NJ, United States  
University of Medicine & Denistry of New Jersey, New  
Brunswick, NJ, United States (U.S. corporation)  
Rutgers University, New Brunswick, NJ, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6517824	B1	20030211
APPLICATION INFO.:	US 1996-650324		19960520 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-479150, filed on 7 Jun 1995, now patented, Pat. No. US 5660822 Division of Ser. No. US 1994-260080, filed on 15 Jun 1994, now patented, Pat. No. US 5720950 Division of Ser. No. US 1992-934818, filed on 24 Aug 1992, now patented, Pat. No. US 5372807 Continuation of Ser. No. US 1990-523232, filed on 17 May 1990, now abandoned Continuation of Ser. No. US 1991-726301, filed on 5 Jul 1991, now patented, Pat. No. US 5219564 Continuation of Ser. No. US 1990-549494, filed on 6 Jul 1990, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Page, Thurman K.		
ASSISTANT EXAMINER:	Ware, T.		
LEGAL REPRESENTATIVE:	Perkins Coie		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	24 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	2299		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for treating pulmonary hypertension and other diseases involving a defect in collagen metabolism, by administration of an effective amount of a liposome encapsulated copolymer conjugate antifibrotic composition, is disclosed. The antifibrotic agent is preferably a proline analog, such as cis-4-hydroxy-L-proline (cHyp). Consistent, high loadings (>98%) of the antifibrotic agent are achieved by first forming a dipeptide with L-lysine, after which the dipeptide is copolymerized with the polymer component to form the copolymer conjugate. The polymer is preferably poly(ethylene glycol) having a weight average molecular weight of from about 500 to about 15,000. There is thus provided the efficient delivery and rateable release of the antifibrotic agent to inhibit collagen accumulation and thereby treat the diseases involved. Accordingly, there is a substantial reduction in the quantity of antifibrotic agent necessary, and thus a corresponding reduction in the potential for toxicity that would otherwise result from its prolonged administration.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2002:300748 USPATFULL  
TITLE: Agent for health inspection and health inspection apparatus using the same  
INVENTOR(S): Kinoshita, Takatoshi, Aichi, JAPAN  
Washizu, Shintaro, Shizuoka, JAPAN  
PATENT ASSIGNEE(S): FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002168291	A1	20021114
APPLICATION INFO.:	US 2002-103833	A1	20020325 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2001-86316	20010323
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SUGHRUE MION, PLLC, 2100 Pennsylvania Avenue, NW, Washington, DC, 20037-3213	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	1299	
AB	The agent for health inspection of the present invention is used as additive to a specimen solution and comprises a rod-shaped body and a capturing structured element bonded to the rod-shaped body which specifically captures a disease marker in the specimen solution.	

L7 ANSWER 4 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2002:259584 USPATFULL

TITLE: High **purity polysaccharide**  
containing **hydrophobic** group and process for  
producing it

INVENTOR(S): Sunamoto, Junzo, Kusatsu-Shi, JAPAN  
Akiyoshi, Kazunari, Uji-Shi, JAPAN  
Hosotani, Ryuzo, Tsukuba-Shi, JAPAN  
Hayashi, Akio, Chiba, JAPAN  
Fukui, Hiroki, Tsukuba-Shi, JAPAN

PATENT ASSIGNEE(S): NOF CORPORATION (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002143160	A1	20021003
APPLICATION INFO.:	US 2002-91992	A1	20020306 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-530347, filed on 25 Apr 2000, PENDING A 371 of International Ser. No. WO 1999-JP1683, filed on 31 Mar 1999, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1998-244671	19980831
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Flynn, Thiel, Boutell & Tanis, P.C., 2026 Rambling Road, Kalamazoo, MI, 49008-1699	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	1417	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

AB 1. A high **purity polysaccharide** containing  
**hydrophobic** group is produced by a process, comprising

a first process step of producing an **isocyanate**  
group-containing **hydrophobic** compound, wherein one mole of a  
hydroxyl group-containing hydrocarbon having 12-50 carbon atoms or of a  
sterol is reacted with a **diisocyanate** represented by  
OCN--R.sup.1--NCO in which R.sup.1 is a hydrocarbyl of 1-50 carbon  
atoms,

a second process step of producing the **polysaccharide**  
containing **hydrophobic** group composed of the hydrocarbon group  
of 12-50 carbon atoms or of the **steryl** group, wherein the  
**isocyanate** group-containing **hydrophobic** compound

obtained in the first process step is reacted with one or more **polysaccharides**, and

a **purification** step in which the reaction product in the second process step is **purified** using a solvent based on ketone.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 6 EUROPATFULL COPYRIGHT 2003 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1113023 EUROPATFULL EW 200127 FS OS  
TITLE: METHOD OF FORMING AGGLOMERATES OF **POLYSACCHARIDE**  
WITH **HYDROPHOBIC** GROUPS.  
VERFAHREN ZUR HERSTELLUNG VON AGGLOMERATEN AUS  
POLYSACCHARIDEN MIT HYDROPHOBEN GRUPPEN.  
PROCEDE DE FORMATION D'AGGLOMERATS DE  
**POLYSACCHARIDE** AVEC DES GROUPES HYDROPHOBES.  
INVENTOR(S): HOSOTANI, Ryuzo, 24-5, Umezono 2-chome, Tsukuba-shi  
Ibaraki 305-0045, JP;  
HAYASHI, Akio, 421-3, Nedo Kashiwa-shi, Chiba 277-0831,  
JP;  
NAKANO, Yoshio, 15-5, Umezono 2-chome, Tsukuba-shi  
Ibaraki 305-0045, JP  
PATENT ASSIGNEE(S): NOF CORPORATION, 20-3, Ebisu 4-chome, Shibuya-ku, Tokyo  
150-6019, JP  
PATENT ASSIGNEE NO: 1558205  
AGENT: Bannerman, David Gardner et al., Withers & Rogers,  
Goldings House, 2 Hays Lane, London SE1 2HW, GB  
AGENT NUMBER: 28001  
OTHER SOURCE: BEPA2001052 EP 1113023 A1 0021  
SOURCE: Wila-EPZ-2001-H27-T1a  
DOCUMENT TYPE: Patent  
LANGUAGE: Anmeldung in Japanisch; Veroeffentlichung in Englisch;  
Verfahren in Englisch  
DESIGNATED STATES: R BE; R CH; R DE; R FR; R GB; R IT; R LI; R NL  
PATENT INFO.PUB.TYPE: EPA1 EUROPAEISCHE PATENTANMELDUNG (Internationale  
Anmeldung)  
PATENT INFORMATION:  

	PATENT NO	KIND DATE
	EP 1113023	A1 20010704
'OFFENLEGUNGS' DATE:		20010704
APPLICATION INFO.:	EP 1999-912076	19990331
RELATED DOC. INFO.:	WO 99-JP1684	990331 INTAKZ
	WO 0059948	001012 INTPNR

L7 ANSWER 6 OF 6 EUROPATFULL COPYRIGHT 2003 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1026174 EUROPATFULL EW 200032 FS OS  
TITLE: HIGH-**PURITY POLYSACCHARIDE**  
CONTAINING **HYDROPHOBIC** GROUPS AND PROCESS FOR  
PRODUCING THE SAME.  
HYDROPHOBIERTE UND SEHR REINE **POLYSACCHARIDE**  
UND VERFAHREN ZU DEREN HERSTELLUNG.  
**POLYSACCHARIDE** A HAUT DEGRE DE PURETE  
CONTENANT DES GROUPES HYDROPHOBES ET PROCEDE DE  
PRODUCTION DE CE **POLYSACCHARIDE**.  
INVENTOR(S): SUNAMOTO, Junzo, 1-30-1013, Shibukawa 1-chome,  
Kusatsu-shi, Shiga 525-0026, JP;

AKIYOSHI, Kazunari, 25-2, Ogura-cho, Horiike, Uji-shi,  
 Kyoto 611-0042, JP;  
 HOSOTANI, Ryuzo, 24-5, Umezono 2-chome, Tsukuba-shi,  
 Ibaraki 305-0045, JP;  
 HAYASHI, Akio, 421-3, Nedo, Kashiwa-shi, Chiba 277-0831,  
 JP;  
 FUKUI, Hiroki, 24-5, Umezono 2-chome, Tsukuba-shi,  
 Ibaraki 305-0045, JP  
 PATENT ASSIGNEE(S): NOF CORPORATION, 20-3, Ebisu 4-chome, Shibuya-ku, Tokyo  
 150-6019, JP;  
 Sunamoto, Junzo, 1-30-1013, Shibukawa 1-chome,  
 Kusatsu-shi, Shiga 525-0026, JP  
 PATENT ASSIGNEE NO: 1558205; 2970110  
 AGENT: Bannerman, David Gardner et al., Withers & Rogers,  
 Goldings House, 2 Hays Lane, London SE1 2HW, GB  
 28001  
 AGENT NUMBER:  
 OTHER SOURCE: BEPA2000060 EP 1026174 A1 0029  
 SOURCE: Wila-EPZ-2000-H32-T1a  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Anmeldung in Japanisch; Veroeffentlichung in Englisch;  
 Verfahren in Englisch  
 DESIGNATED STATES: R BE; R CH; R DE; R FR; R GB; R IT; R LI; R NL  
 PATENT INFO.PUB.TYPE: EPA1 EUROPÄISCHE PATENTANMELDUNG (Internationale  
 Anmeldung)  
 PATENT INFORMATION:

	PATENT NO	KIND DATE
	EP 1026174	A1 20000809
'OFFENLEGUNGS' DATE:		20000809
APPLICATION INFO.:	EP 1999-912075	19990331
PRIORITY APPLN. INFO.:	JP 1998-244671	19980831
RELATED DOC. INFO.:	WO 99-JP1683	990331 INTAKZ
	WO 0012564	000309 INTPNR

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